



Performance Data Sheet

RGA5471BXD

General Information

Model	RGA5471BXD	Refrigerant	R-410A
Test Condition	ASHRAE	Performance Test Voltage	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	2190	2150					
	Watts	403	425					
	Amps	1.91	2.02					
	Lb/h	28.6	27.9					
-10	Btu/h	2580	2490	2400				
	Watts	414	441	468				
	Amps	1.97	2.10	2.22				
	Lb/h	32.8	31.9	30.9				
-5	Btu/h	3020	2880	2740	2600			
	Watts	424	454	485	516			
	Amps	2.02	2.16	2.30	2.45			
	Lb/h	37.5	36.4	35.3	34.2			
0	Btu/h	3510	3320	3130	2940	2750		
	Watts	431	465	499	534	569		
	Amps	2.06	2.21	2.37	2.53	2.70		
	Lb/h	42.7	41.4	40.2	38.9	37.5		
5	Btu/h	4040	3800	3560	3320	3080		
	Watts	435	473	511	550	589		
	Amps	2.08	2.25	2.42	2.60	2.78		
	Lb/h	48.4	47.0	45.6	44.1	42.6		
10	Btu/h	4620	4330	4040	3750	3450	3160	2870
	Watts	437	479	521	563	606	649	693
	Amps	2.09	2.28	2.46	2.66	2.85	3.05	3.25
	Lb/h	54.7	53.1	51.5	49.9	48.2	46.5	44.7
15	Btu/h	5250	4910	4560	4220	3880	3530	3190
	Watts	437	483	528	575	621	668	716
	Amps	2.09	2.29	2.49	2.70	2.91	3.12	3.34
	Lb/h	61.5	59.8	58.0	56.2	54.3	52.4	50.5
20	Btu/h	5930	5540	5140	4740	4350	3950	3560
	Watts	434	484	533	583	634	684	736
	Amps	2.08	2.29	2.51	2.73	2.96	3.18	3.41
	Lb/h	68.9	67.0	65.0	63.0	61.0	58.9	56.8

25	Btu/h	6670	6220	5770	5320	4870	4420	3970
	Watts	429	482	536	590	644	698	753
	Amps	2.06	2.29	2.52	2.76	2.99	3.23	3.48
	Lb/h	76.9	74.7	72.6	70.4	68.2	65.9	63.7
30	Btu/h	7460	6950	6450	5940	5440	4940	4440
	Watts	421	479	536	594	652	710	769
	Amps	2.03	2.27	2.52	2.77	3.02	3.27	3.53
	Lb/h	85.4	83.1	80.7	78.3	75.9	73.5	71.1
35	Btu/h	8300	7740	7180	6620	6070	5510	4960
	Watts	411	472	534	595	657	719	782
	Amps	1.99	2.25	2.51	2.77	3.04	3.31	3.58
	Lb/h	94.6	92.0	89.4	86.9	84.3	81.6	79.0
40	Btu/h	9200	8580	7970	7350	6740	6130	5520
	Watts	399	464	529	594	660	726	793
	Amps	1.95	2.22	2.49	2.77	3.05	3.33	3.61
	Lb/h	104	102	98.7	96.0	93.2	90.3	87.5
45	Btu/h	10200	9480	8810	8140	7470	6810	6150
	Watts	383	452	522	591	661	731	801
	Amps	1.90	2.18	2.47	2.76	3.05	3.34	3.64
	Lb/h	115	112	109	106	103	99.6	96.6
50	Btu/h	11200	10400	9710	8990	8260	7540	6820
	Watts	366	439	512	585	659	733	807
	Amps	1.84	2.14	2.43	2.74	3.04	3.35	3.66
	Lb/h	126	122	119	116	113	109	106
55	Btu/h	12200	11500	10700	9890	9110	8330	7550
	Watts	346	423	500	577	655	732	810
	Amps	1.77	2.08	2.40	2.71	3.03	3.35	3.67
	Lb/h	137	134	130	127	123	120	116

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.010209E+03	1.623827E+02	8.326084E-01	5.212346E+01
C2	1.849870E+02	-5.040569E+00	-1.867006E-02	1.385950E+00
C3	-1.880194E+01	3.364128E+00	1.536776E-02	-1.190834E-01
C4	1.044168E+00	-5.171445E-02	-2.117266E-04	1.156433E-02
C5	-1.057119E+00	7.913105E-02	3.063206E-04	-3.891694E-03
C6	3.921175E-04	-9.063612E-04	-5.915090E-06	8.110629E-05
C7	1.609253E-03	-1.688306E-05	9.184607E-07	1.178999E-05
C8	-1.215813E-03	4.499302E-05	-4.659006E-07	-1.112239E-05
C9	2.230729E-04	-2.147946E-05	-5.362502E-09	3.023089E-06
C10	-6.244879E-06	9.484817E-06	6.031976E-08	-8.439806E-07

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature